

5      ABSTRACT

The present invention relates to an adaptive algorithm and device for the same, for calculating a weight vector to be applied to an adaptive array antenna system, suggesting an adaptive algorithm suitable for calculating an autocovariance matrix of signal vectors of signals received from antennas before despreading in a known channel code, and an 10 autocovariance matrix of signal vectors of signals received from antennas after being despread in the known channel code. Particularly, the calculation is carried out with the autocovariance matrix of the signal vector before the despread divided into diagonal components and non-diagonal components.